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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,222	02/09/2004	Jen-Yuan Huang	TOP 355	6740
23995	7590	02/08/2006	EXAMINER	
RABIN & Berdo, PC 1101 14TH STREET, NW SUITE 500 WASHINGTON, DC 20005			THOMAS, LUCY M	
		ART UNIT	PAPER NUMBER	
			2836	

DATE MAILED: 02/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/773,222	HUANG, JEN-YUAN
	Examiner Lucy Thomas	Art Unit 2836

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 1-18 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on ____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 7/26/2004.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 4, 6-8 and 10-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Park (WO 01/69357). Regarding Claim 1, Park discloses an electronic apparatus (Figure 1) comprising: a motherboard generating positive ions during operation; and a negative ion generating device 100 for generating negative ions, wherein the positive ions are neutralized by a portion of the negative ions when the motherboard operates (Figure 2, Abstract). Regarding Claim 4, Park discloses the electronic apparatus further includes a hard disk drive on which the negative ion generating device is disposed (see Figure 6, Page 3, lines 17-25, Page 6, lines 6-13). Regarding Claim 6, Park discloses the electronic apparatus further comprising a fan 400 for generating airflow for exhausting the negative ions (Page 11, lines 18-22, Page 17, line 17). Regarding Claim 7, Park discloses the electronic apparatus, wherein the fan is a heat-dissipating fan 400 for the electronic apparatus ions (Page 11, lines 18-22, Page 17, line 17).

Regarding Claim 8, Park discloses the electronic apparatus, wherein the electronic apparatus further includes a central processing unit, and fan 400 is a heat-dissipating fan for the central processing unit ions (Page 11, lines 18-22, Page 17, line

17). Park does not use the word CPU, but it is understood that the computer inherently has a central processing unit. Regarding Claim 10, Park discloses the electronic apparatus, wherein the negative ion-generating device includes a high-voltage discharge terminal (see contact plates 51-2) for decomposing air to generate the negative ions (see Abstract, Page 6, lines 22-24, Page 9, lines 10-16). Regarding Claim 11, Park discloses the electronic apparatus, wherein the negative ion-generating device further includes a ground terminal (see contact plates 44) for grounding positive ions generated from the dissolved air (Page 9, lines 10-16).

Regarding Claim 12, Park discloses the electronic apparatus, wherein the negative ion generating device further includes a power terminal, connected to the motherboard, for providing power required by the negative ion generating device (Page 11, lines 18-22). Regarding Claim 13, Park discloses the electronic apparatus further includes a power supply, and the negative ion generating device further includes a power terminal connected to the power supply, for providing power required by the negative ion generating device (Page 11, lines 18-22). Regarding Claim 14, Park discloses the electronic apparatus further comprising: a housing, which the motherboard and the negative ion generating device is disposed (see Figure 1 and 6). Regarding Claim 15, housing shown in Figure 1 and 6, the housing includes an opening 2 and the fan 400 is disposed in the opening.

Regarding Claim 16, Park discloses the electronic apparatus, wherein the electronic apparatus is a computer (see Abstract). Regarding Claim 17, Park discloses

a computer, which may be considered to be portable as the computer may be moved and relocated.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2-3, 5, 9, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park (WO 01/69357). Regarding Claims 2-3 and 5, Park does not disclose the electronic apparatus, wherein the negative ion generating device is disposed on the motherboard as recited in Claim 2, or on an optical disk drive as recited in Claim 3, or in a power supply as recited in Claim 5. It would be obvious to those skilled in the art at the time the invention was made to provide a negative ion generating device which is miniaturized to be disposed on an optical disk drive, or a motherboard, or a power supply, where the cooling fan in the computer is located and to anionize contaminated air flow to prevent failure of these critical components of the computer. Regarding Claim 9, Park does not disclose the electronic apparatus, wherein the negative ion generating device includes rare earth elements. It would be obvious to those skilled in the art at the time the invention was made to use a coating of rare earth elements on the ion generating electrodes to provide increased ionization as rare earth compounds are highly electron emissive.

Regarding Claim 18, Park does not disclose that the computer is used as a server, however it would have been obvious those skilled in the art at the time the invention was made that any computer, including one used as a server should be provided with the negative ion generating device of Park to prevent the interior of the computer from being contaminated which would increase the reliability of the computer.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 2004/0226445.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lucy Thomas whose telephone number is 571-272-6002. The examiner can normally be reached on Monday - Friday 8:00 AM - 4:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on 571-272-2058. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LT
December 06, 2005



PHUONG T. VU
PRIMARY EXAMINER